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	Application No.	Applicant(s)	
	09/849,920	DALLY ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Cassandra Cox	2816	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course, THIS
1. \boxtimes This communication is responsive to <u>amendment filed on 0</u>	03/25/05.		
2. ☑ The allowed claim(s) is/are <u>2-5 and 7-18</u> .			
3. \square The drawings filed on <u>04 May 2001</u> are accepted by the Ex	aminer.		
 4. Acknowledgment is made of a claim for foreign priority unally all b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Certified copies of the certified copies of the priority documents have * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the copies of the priority documents have THREE-MONTH PERIOD IS NOT EXTENDABLE. 	been received. been received in Application No cuments have been received in this rec	national stage applica	
5. A SUBSTITUTE OATH OR DECLARATION must be submi			OTICE OF
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers		948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1.	84(c)) should be written on the drawin	gs in the front (not the	back) of
7. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL n	nust be submitted.	Note the
Attachment(s) 1. □ Notice of References Cited (PTO-892)	5.	atent Application (PT0	D-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summary Paper No./Mail Dat	e <u>03/21/05</u> .	
Information Disclosure Statements (PTO-1449 or PTO/SB/0: Paper No./Mail Date			wanco
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's Stateme 9. □ Other	THE OF REASONS FOR AND	Marke Market
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DETAILED ACTION

This Office Action is in response to the personal Interview conducted on March 21, 2005 and the subsequent Amendment filed by the applicant on March 25, 2005.

The examiner notes that the previous indication of claim 1 being allowable over the O'Sullivan reference (during the personal Interview of March 21, 2005) is being withdrawn and therefore, claim 1 remains unpatentable over the applied reference. This point however, is moot due to the examiner's amendment that follows, which cancels claims 1 and 6.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jim Smith on April 15, 2005.

The application has been amended as follows: Claims 1 and 6 have been canceled.

In line 1 of claims 5, 15, and 17, the number "1" has been replaced with the number --2--.

In line 1 of claims 10, 11, and 13, the number "6" has been replaced with the number --7--.

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Allowable Subject Matter

2. Claims 2-5 and 7-18 are allowed.

3. The following is an examiner's statement of reasons for allowance: Claims 2-5 and 7-11, 13, 15, and 17 are allowed because the closest prior art of record fails to disclose a circuit as shown in Figure 14 wherein the multiplier circuit further comprises a window signal (window) having a rate that is divided down from the output signal (this is performed by divider 193) in combination with the rest of the limitations of the base claims and any intervening claims. Claims 12 and 16 would be allowable because the closest prior art of record fails to disclose a circuit as shown in Figure 6 wherein each of the up and down pulses (up, down) has a duration which is a fraction of the input signal and the output signal transition times in combination with the rest of the limitations of the base claims and any intervening claims. Claims 14 and 18 would be allowable because the closest prior art of record fails to disclose a circuit as shown in Figure 1 in which the combinational circuitry provides current source and drain to an output as up and down current pulses (see specification page 8, line 23 through page 9, line 2) in combination with the rest of the limitations of the base claims and any intervening claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cassandra Cox whose telephone number is 571-272-1741. The examiner can normally be reached on Monday-Thursday from 7:00 AM to 4:30 PM and on alternate Fridays from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 15, 2005